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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Adler-Golden et al.
Serial No.: 09/767,539
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For: Improved Methods for Solar-
Wavelength Atmospheric
Correction of Hyperspectral
Imagery Over Land

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Examiner: Milani, J.
Group No.: 2878
Docket No.: SPSC/001/US

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To the Commissioner of Patents and Trademarks
Washington, DC 20231

INFORMATION DISCLOSURE CITATION

Other Prior Art – Non Patent Literature Documents are as follows:

- AG B.-C. Gao, K.B. Heidebrecht and A.F.H. Goetz, *Atmosphere Removal Program (ATREM) Version 2.0 Users Guide*, Center for the Study of Earth from Space/CIRES, University of Colorado, Boulder, Colorado, **26** 1996.
- AG R.O. Green, D.A. Roberts, and J.E. Conel, "Characterization and Compensation of the Atmosphere for Inversion of AVIRIS Calibrated Radiance to Apparent Surface Reflectance," *Summaries of the Sixth Annual JPL Airborne Earth Science Workshop*, JPL Publication 96-4, Vol. 1, Pasadena, California, pp. 135-146, 1996.
- AG S.M. Adler-Golden, M.W. Matthew, L.S. Bernstein, R.Y. Levine, A. Berk, S.C. Richtsmeier, P.K. Acharya, G.P. Anderson, G. Felde, J. Gardner, M. Hoke, L.S. Jeong, B. Pukall, J. Mello, A. Ratkowski and H.-H. Burke, Atmospheric Correction for Short-wave Spectral Imagery based on MODTRAN4," *SPIE Proceeding, Imaging Spectrometry V*, **3753**, pp. 61-69, 1999.
- AG A. Berk, L. S. Bernstein, G. P. Anderson, P. K. Acharya, D. C. Robertson, J. H. Chetwynd and S. M. Adler-Golden, "MODTRAN Cloud and Multiple Scattering Upgrades with Application to AVIRIS," *Remote Sensing Environment* **65**, 367, 1998.
- AG E.F. Vermote, D. Tanre, J.L. Deuze, M. Herman and J.J. Morcrette, , *Second Simulation of the Satellite Signal in the Solar Spectrum (6S)*, 6S User Guide Version 6.0, NASA-GSFC, Greenbelt, Maryland, **134**, 1994.

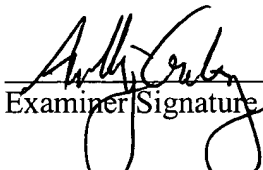
AL R. Richter, "Atmospheric Correction of DAIS Hyperspectral Image Data," *SPIE AEROSENSE '96 Conference*, Orlando, FL, April 8-12, SPIE Proceedings, **2758**, 1996.

AL E.F. Vermote, N. El Saleous, C.O. Justice, Y.J. Kaufman, J.L. Privette, L. Remer, J.C. Roger and D. Tanre, "Atmospheric Correction of Visible to Middle-Infrared EOS-MODIS Data Over Land Surfaces: Background, Operational Algorithm and Validation," *J. Geophys. Res.*, **102**, pp. 17131-17141, 1997.

AL Y. J. Kaufman, D. Tanre, L. A. Remer, E. F. Vermote, A. Chu, and B. N. Holben, "Operational Remote Sensing of Tropospheric Aerosol over Land from EOS Moderate Imaging Spectroradiometer," *J. Geophys. Res.* **102**, 17051, 1997; Y.J. Kaufman, A.E. Wald, L.A. Remer, B.-C. Gao, R.-R. Li, and L. Flynn, "The MODIS 2.1- μ m Channel--Correlation with Visible Reflectance for Use in Remote Sensing of Aerosol," *IEEE Transactions on Geoscience and Remote Sensing*, **35**, pp. 1286-1298, 1997.

AL S.A. Ackerman, K.I. Strabala, W.P. Menzel, R.A. Frey, C.C. Moeller, and L.E. Gumley, "Discriminating Clear Sky from Clouds with MODIS," *J. Geophys. Res.* **103**, 32141, 1998.

AL C.C. Borel, P.V. Villeneuve, W.B. Clodius, J.J. Szymanski, and A.B. Davis, "Practical Atmospheric Correction Algorithms for a Multi-spectral Sensor from the Visible through the Thermal Spectral Regions," *SPIE '99 Paper, Conf.* 3717-19, Los Alamos National Laboratory Report No. LA-UR-99-1374, 1999.


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